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REPLACEMENT FORMAL DRAWINGS

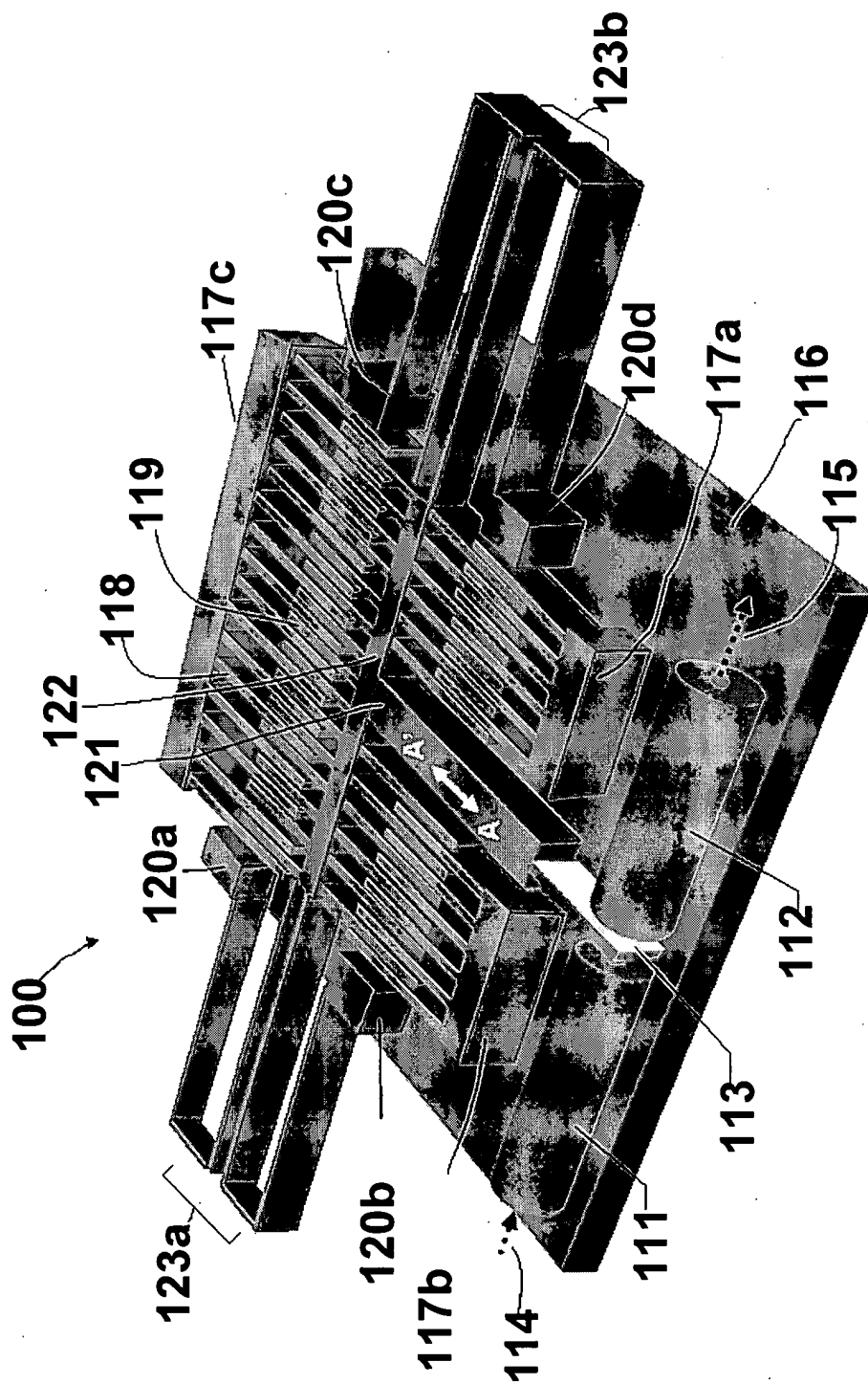


Fig.1

REPLACEMENT FORMAL DRAWINGS

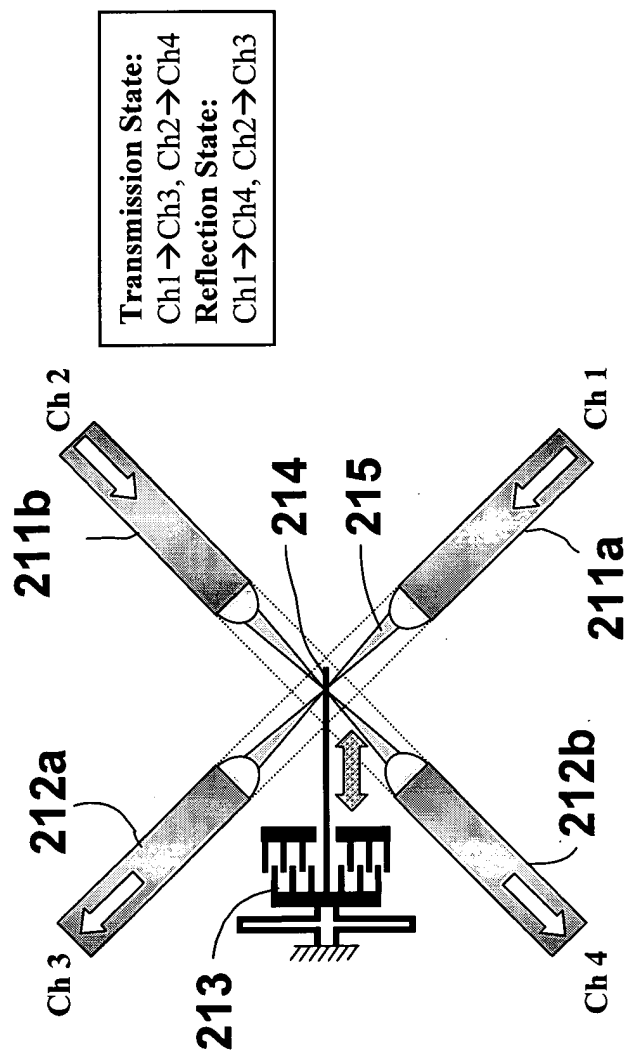


Fig.2

REPLACEMENT FORMAL DRAWINGS

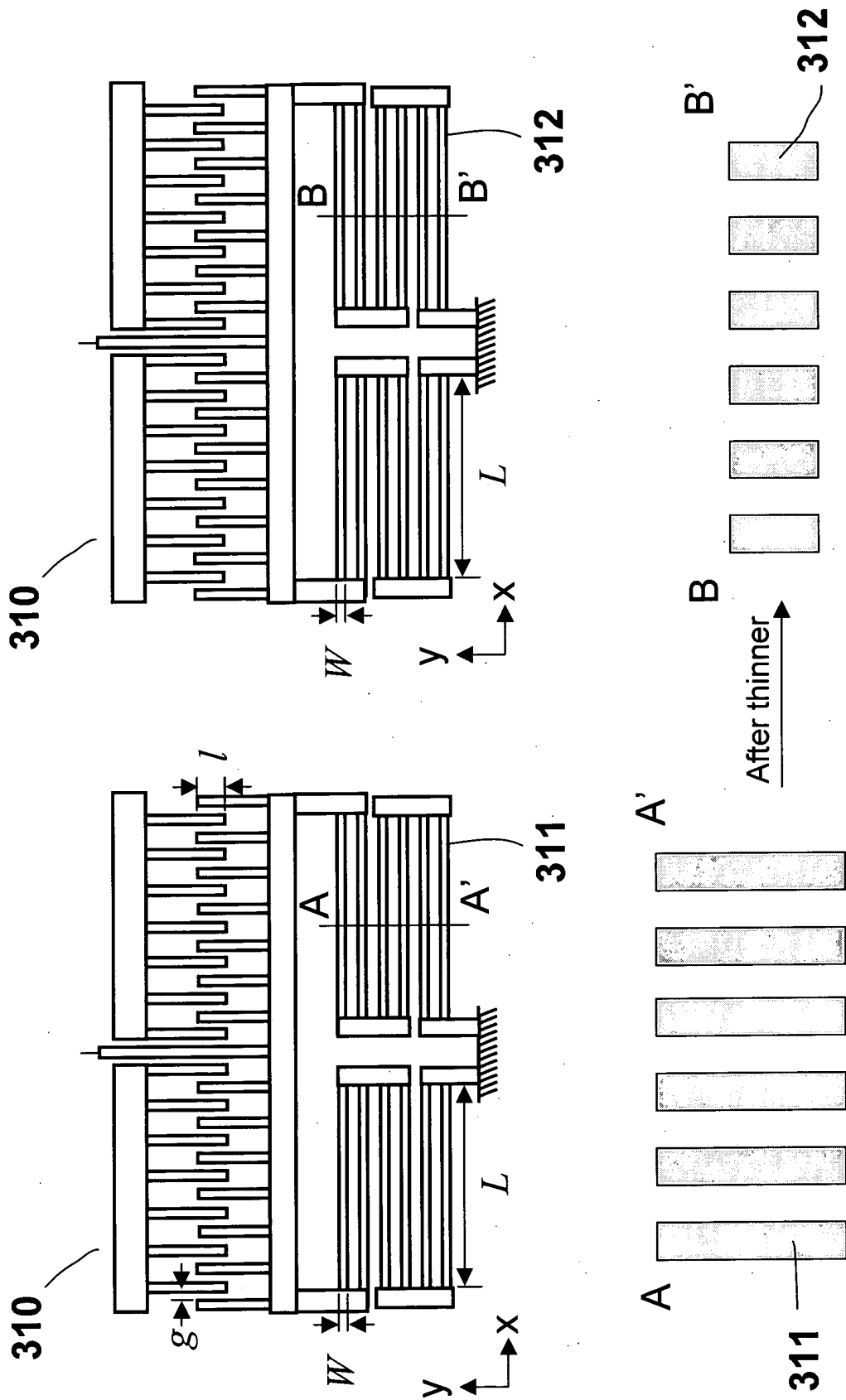


Fig.3

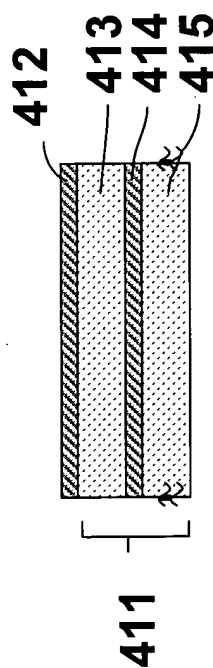


Fig. 4a

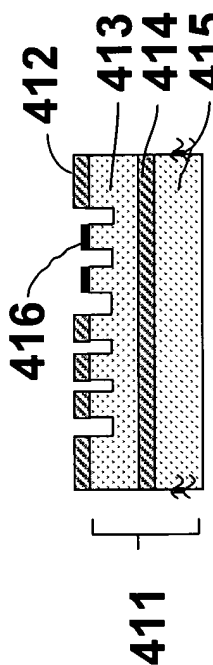


Fig. 4d

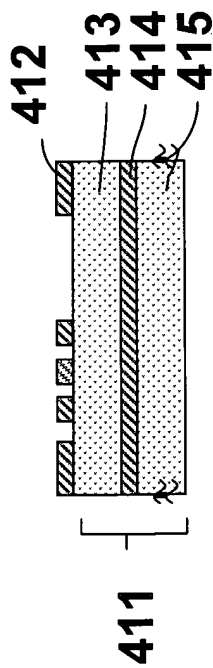


Fig. 4b

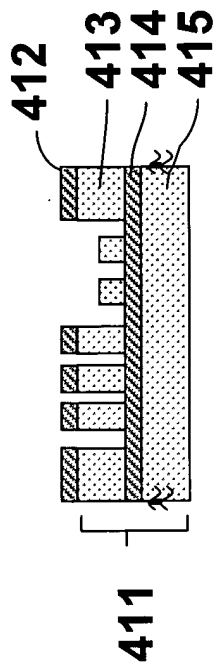


Fig. 4e

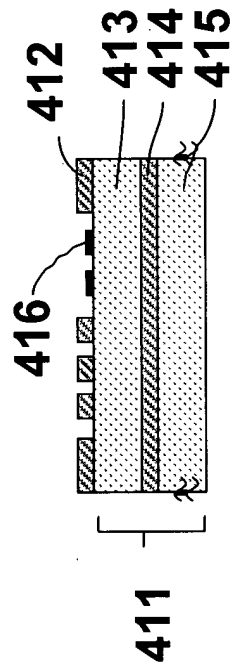


Fig. 4c

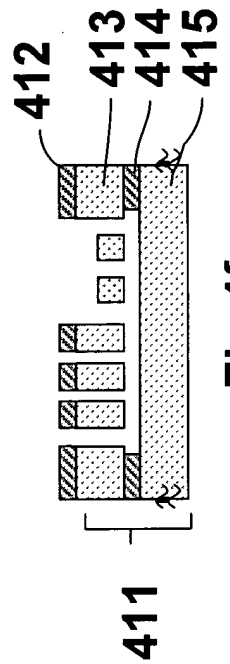


Fig. 4f

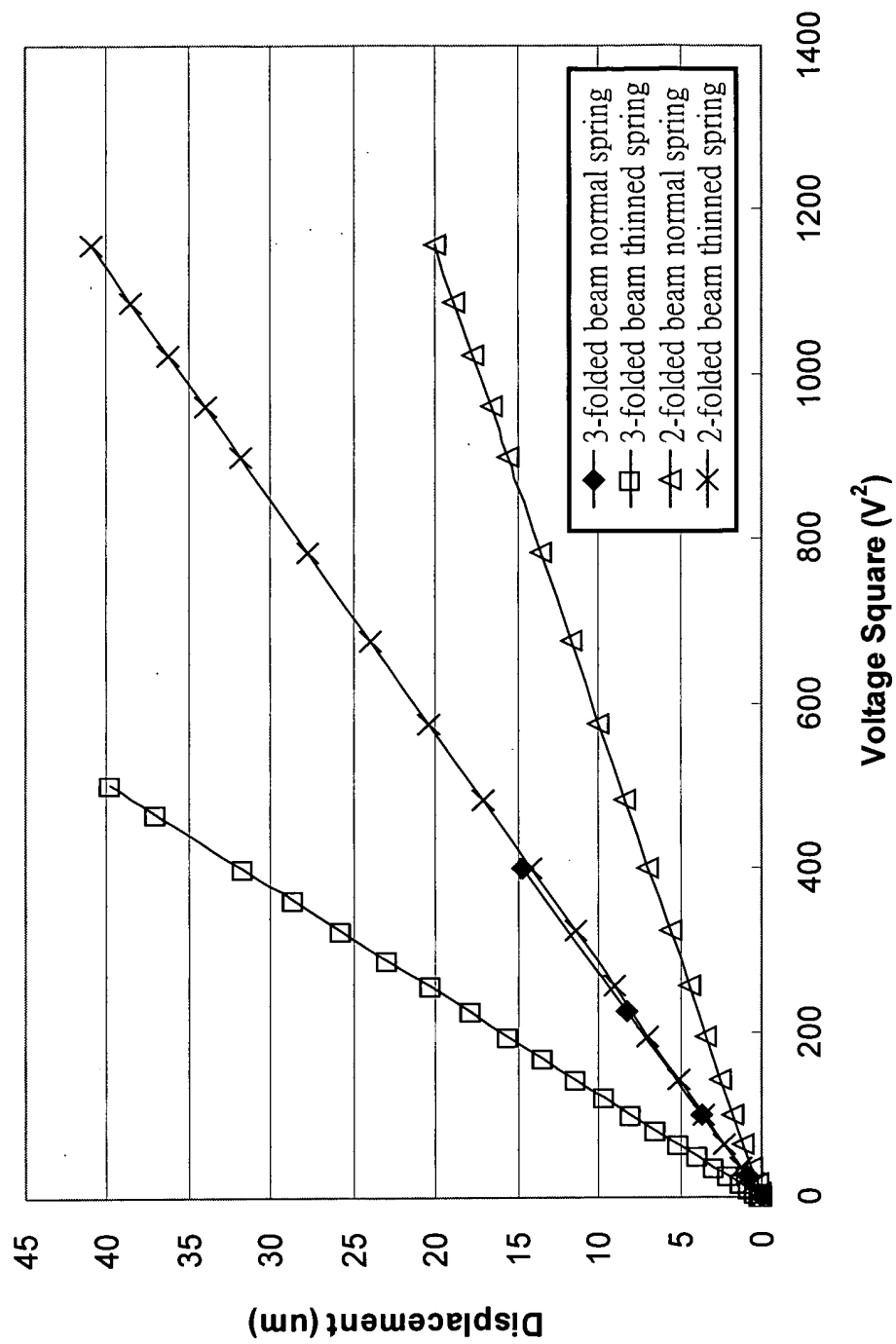


Fig.5

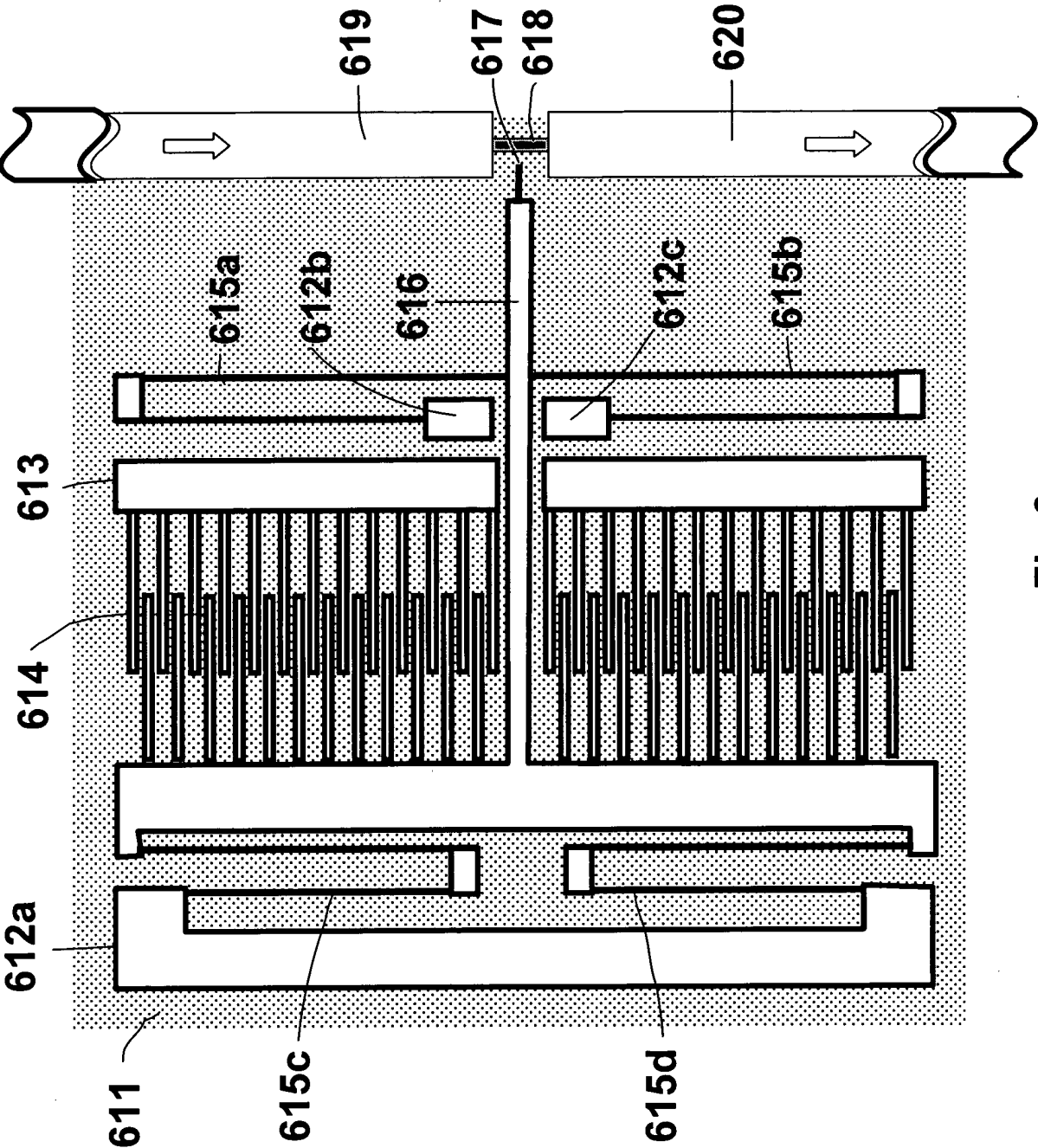


Fig.6

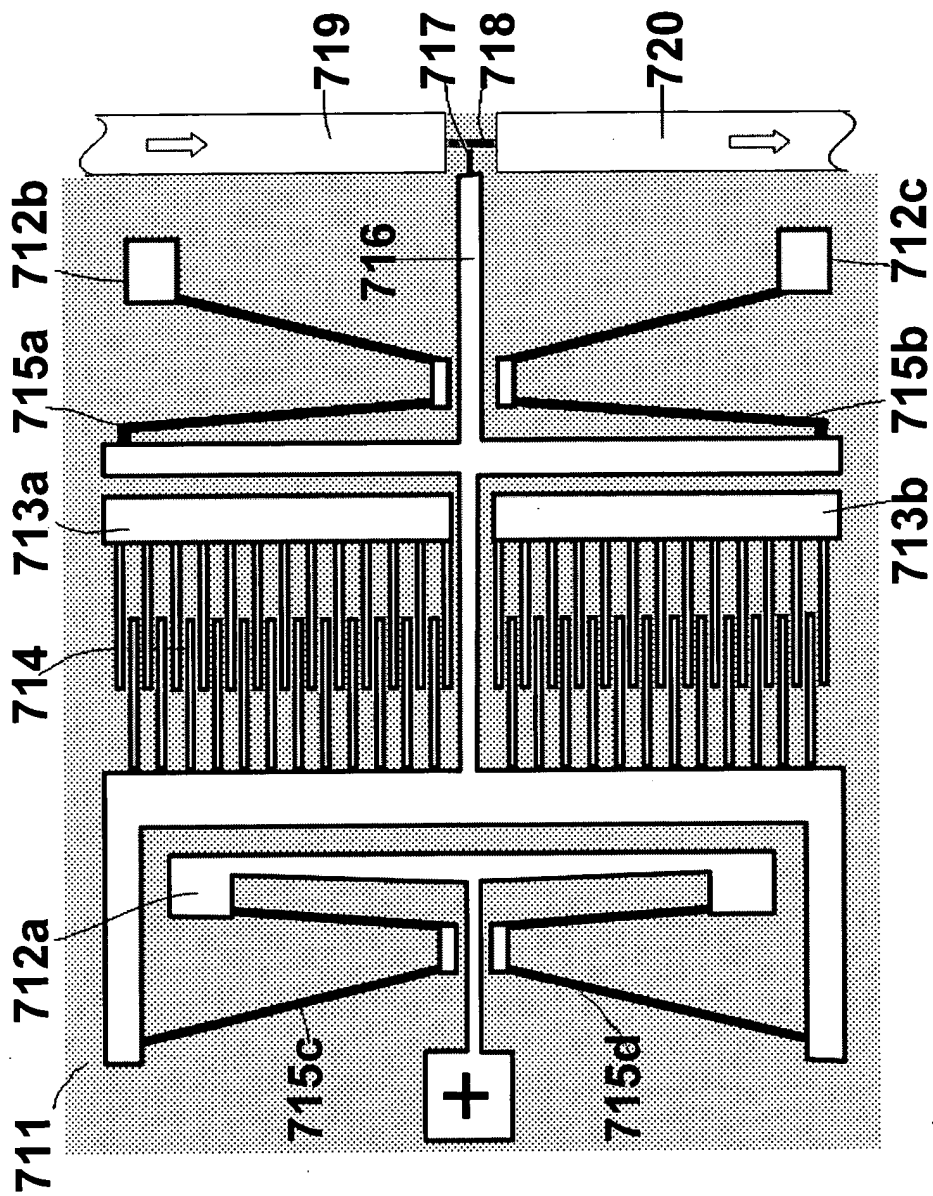


Fig.7

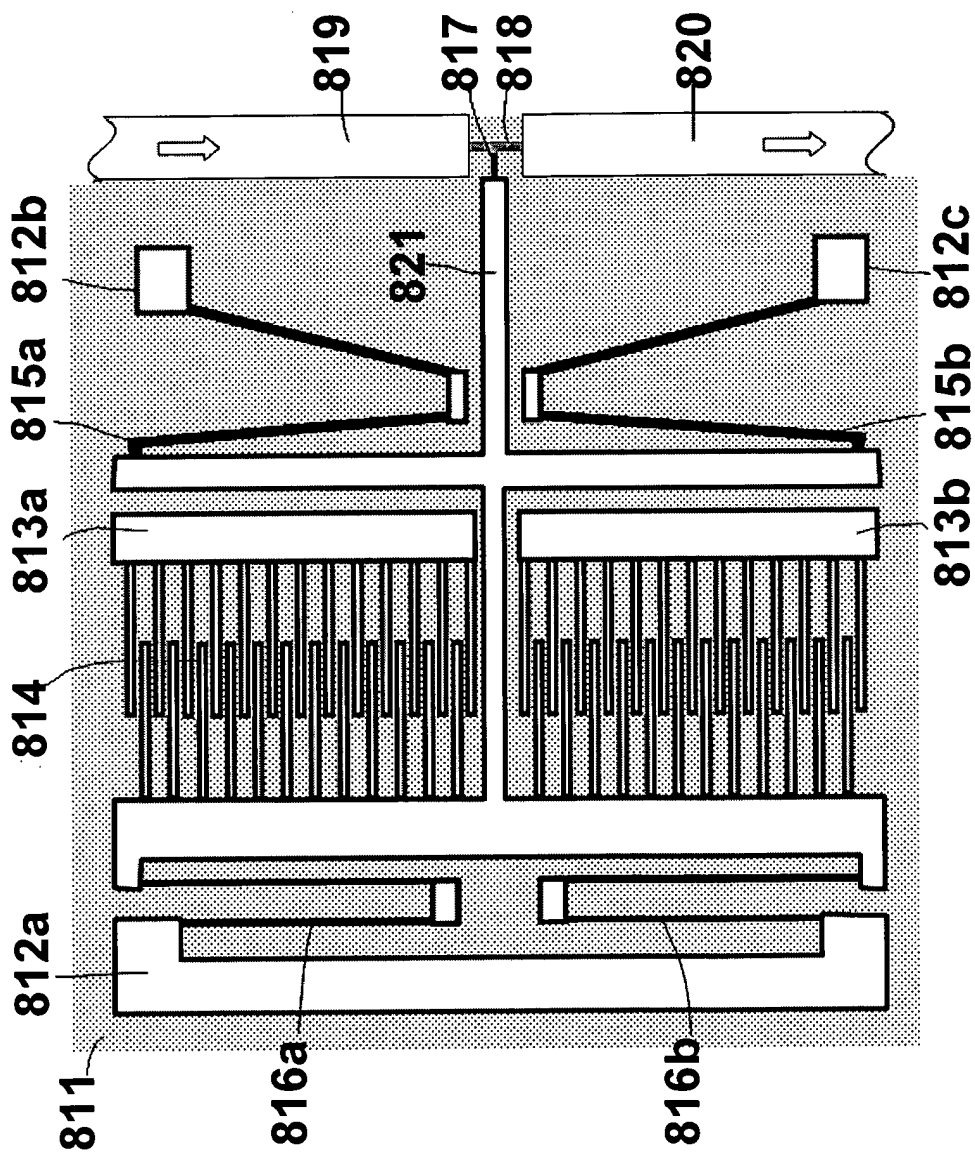


Fig.8a

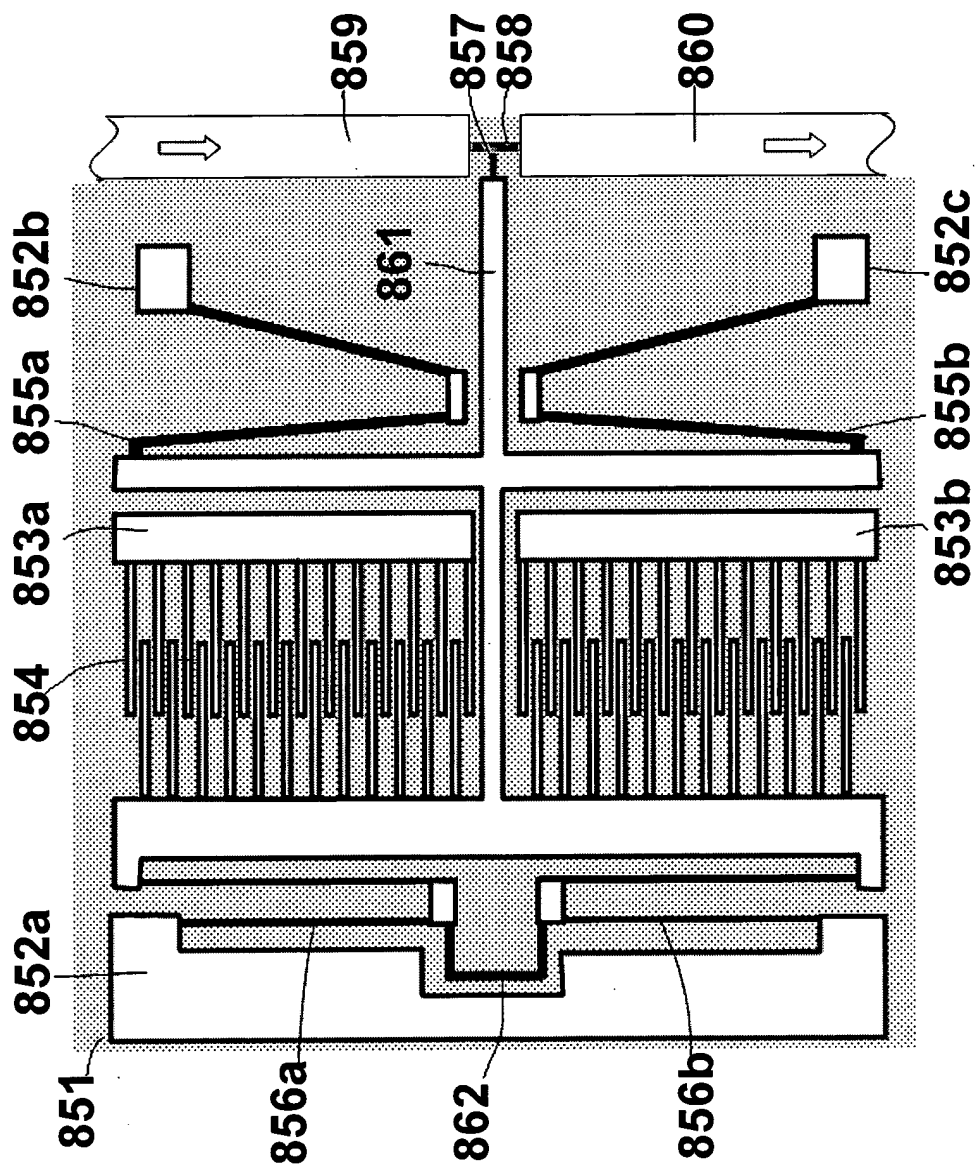


Fig. 8b

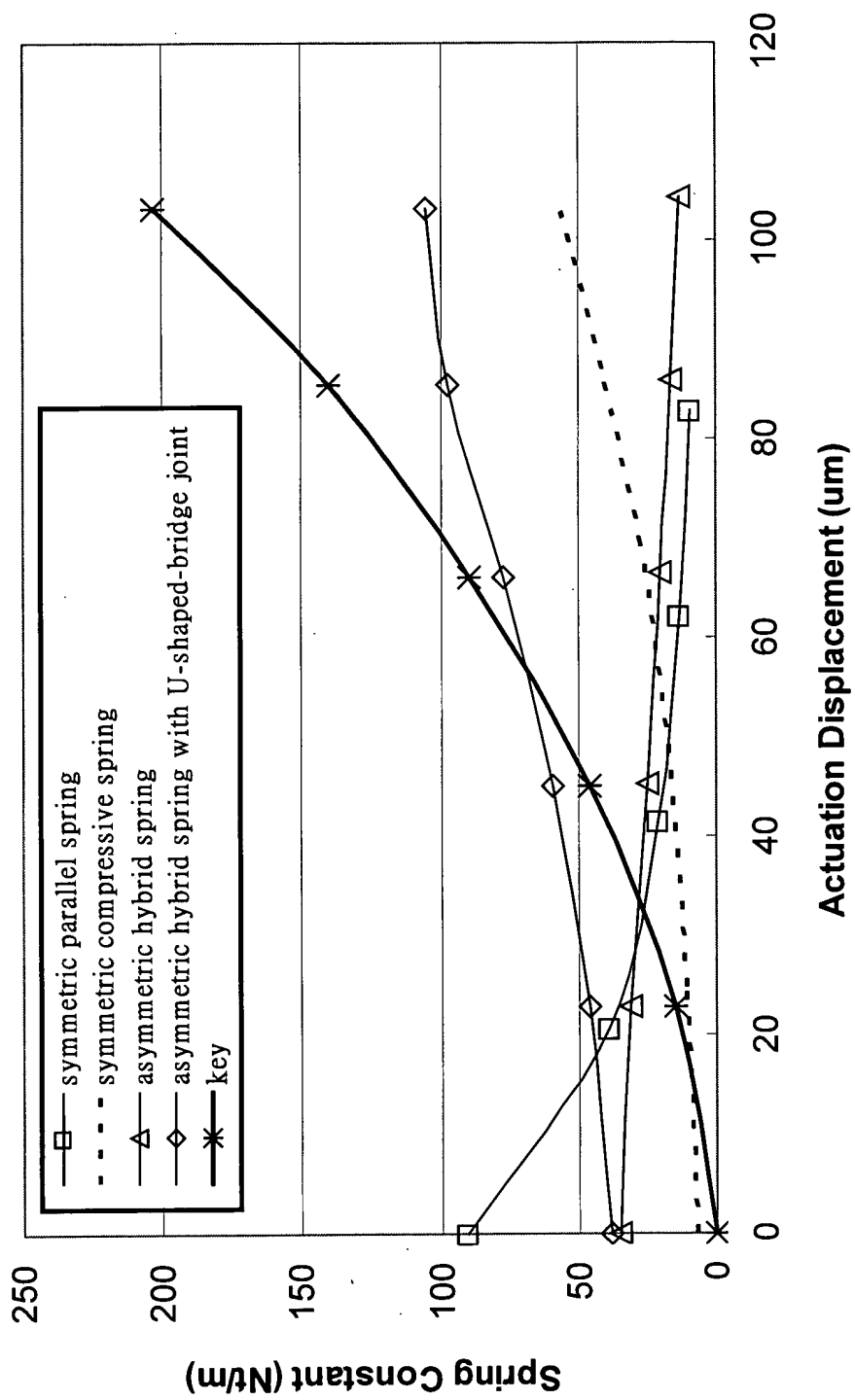


Fig.9

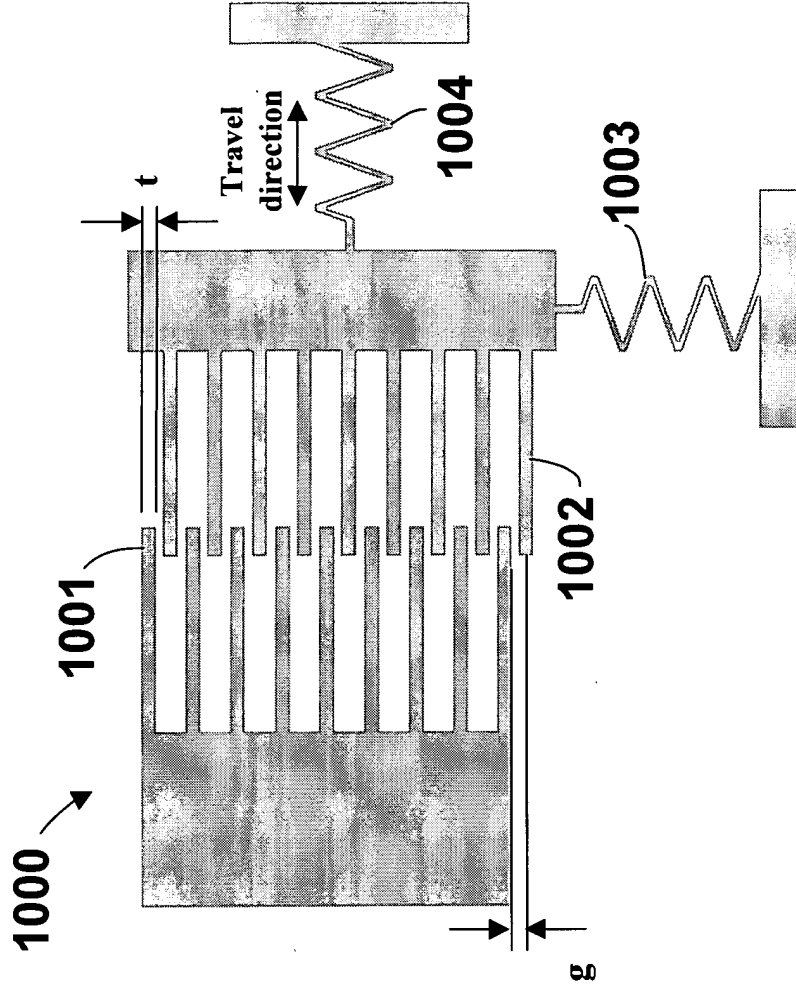


Fig.10a

$$F = \frac{\epsilon \cdot t \cdot H \cdot V^2}{2 \cdot g}$$

ϵ : dielectric constant
 H : thickness of device
 V : voltage
 g : gap of finger
 t : width of comb finger

$$F = \epsilon \cdot H \cdot V^2 \cdot \frac{(g \cdot \cos(\theta) + W_o \cdot \sin(\theta))}{(g - x \cdot \sin(\theta))^2}$$

- e: dielectric constant
- H: thickness of device
- V: voltage
- g : gap of finger
- W_o : overlap of comb finger
- ? : degree of oblique comb
- Lo : working distance

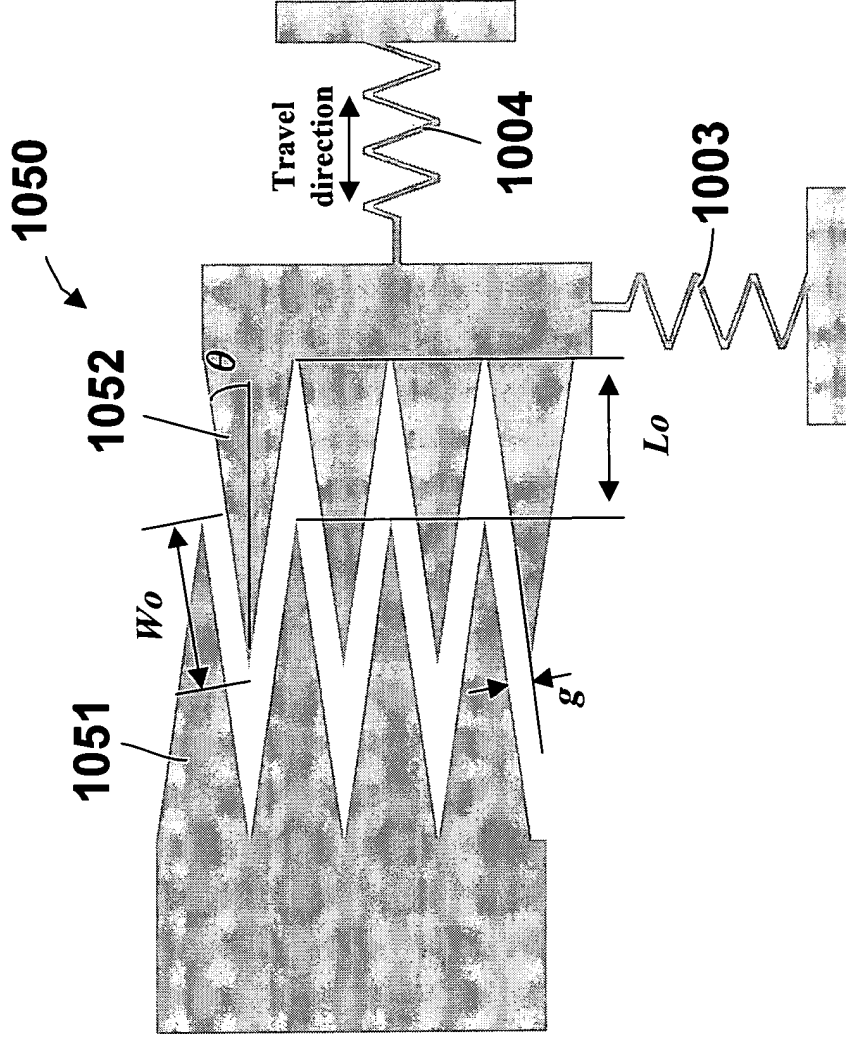


Fig.10b

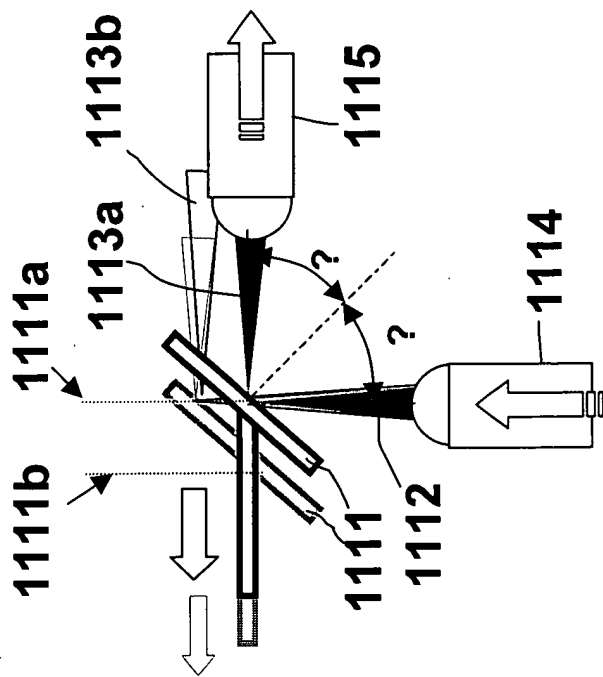


Fig.11a

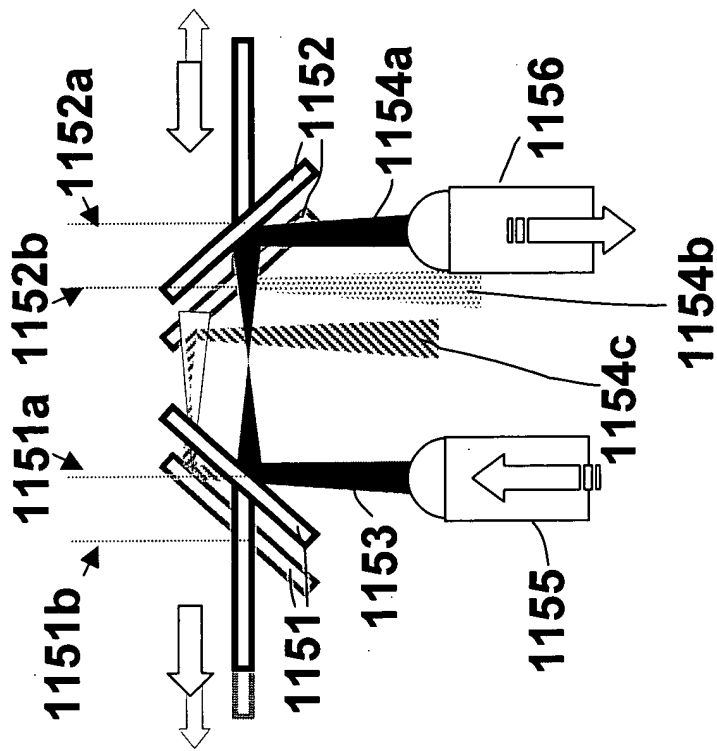


Fig.11b

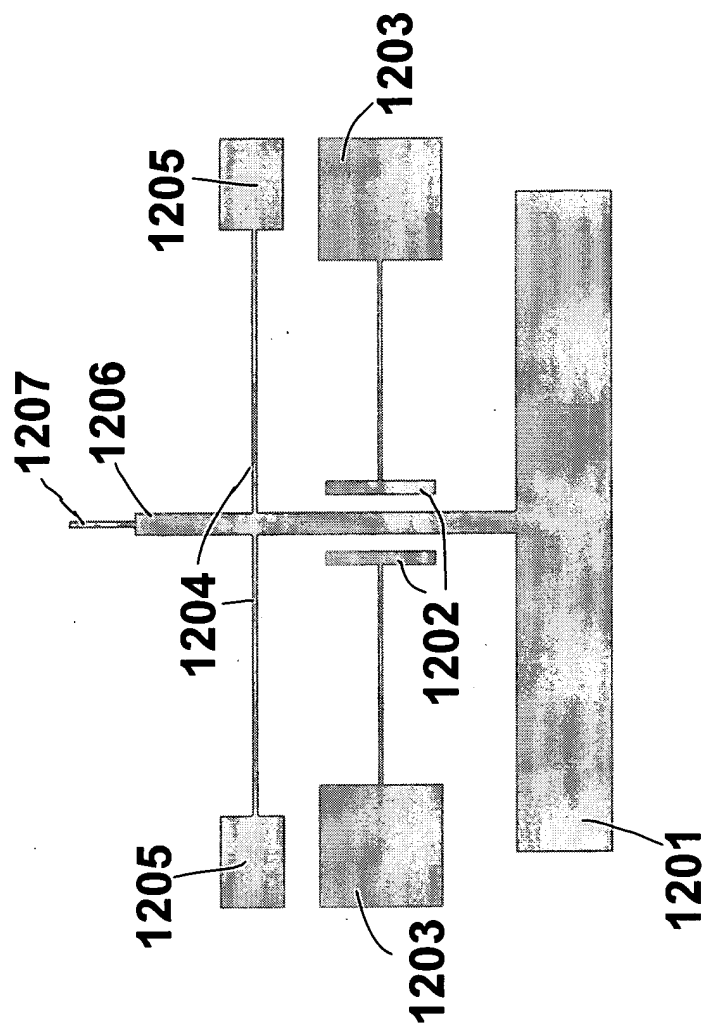


Fig.12a

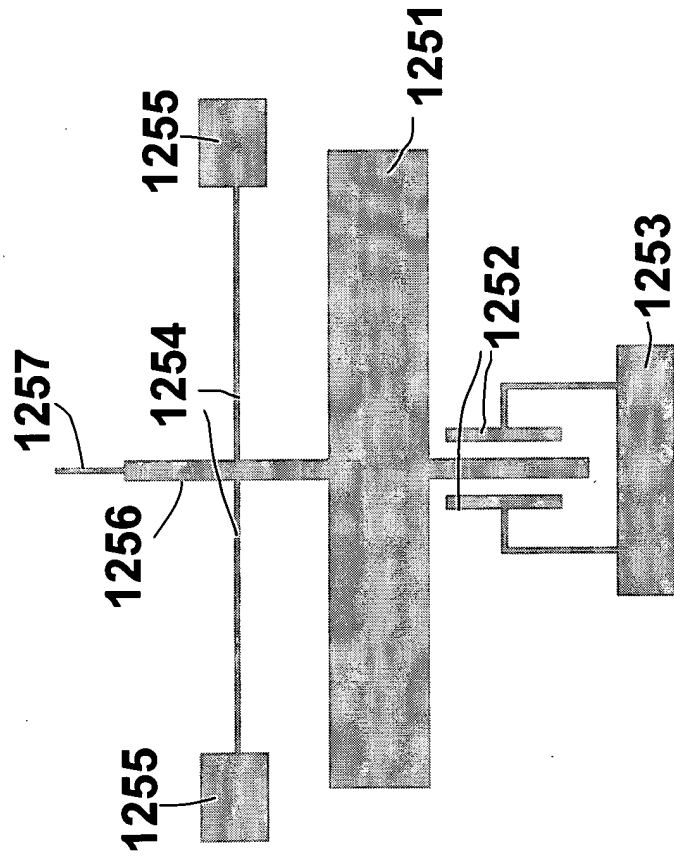


Fig.12b